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TRANSMITTAL DOCUMENT

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1. Name and Address of Submitter:

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2. Regulatory Action in Support of Which This Package is Submitted:

The studies listed in this document are submitted to support the registration of CONFIDOR 2 Flowable and CONFIDOR 2.5% Granular for use on apples, potatoes and cotton. These studies also support establishment of tolerances for imidacloprid as proposed in the accompanying petition. These actions have been previously assigned to Mr. Dennis H. Edwards, Product Manager 19, Registration Division.

3. Transmittal Date:

November 4, 1991

4. List of Submitted Studies:

MRID No. Study No.

ENVIRONMENTAL FATE DATA/ECOLOGICAL EFFECTS

42556101

- 1 "Evaluation of the Foliar Half-Life and Distribution of NTN 33893 in Potatoes," There is no EPA Guideline No. for this study, Miles Report No. 103233, J.C. Lin, 166 p.

42556102

- 2 "NTN 33893: Runoff and Erosion Predictions and Microcosm Loading Rates for Potatoes, Cotton and Apple Use Patterns," There is no EPA Guideline No. for this study, Miles Report No. 103809, J.C. Lin, 111 p.

42556103

- 3 "Ecological Effects Summary and Risk Assessment for NTN 33893 (Imidacloprid) Use on Potatoes, Cotton and Apples: CONFIDOR 2 Flowable and CONFIDOR 2.5 GR Formulations" There is no EPA Guideline No. for this study, Mobay Report No. 103900, R.L. Graney and D.L. Fischer, 64 p.

ENVIRONMENTAL FATE

42556104

- 4 "[Pyridinyl]-¹⁴C-methyl] NTN 33893 in Rotational Crops," EPA Guideline No. 165-1, Miles Report No. 103812, V. Vogeler, P. Linke-Ritzer and A. Brauner, 191 p.

RESIDUE CHEMISTRY DATA (METABOLISM, RESIDUE METHODS, RESIDUE

42556105

- 5 "Metabolism of NTN 33893 in Cotton After Seed Treatment," EPA Guideline No. 171-4(a), Miles Report No. 103818, K. Vogeler and A. Brauner, 83 p.

42556106

- 6 "Investigation of the Metabolism of NTN 33893 in Potatoes Following Granular Application," EPA Guideline No. 171-4, Miles Report No. 103218, K. Voegler, G. Drager and A. Brauner, 74 p.

42556107

- 7 "Study on the Metabolism of NTN 33893 After Spray Application to Potatoes," EPA Guideline No. 171-4, Miles Report No. 103211, G. Drager, W. Bornatsch and A. Brauner, 77 p.

42556108

- 8 "Metabolism of [¹⁴C] NTN 33893 in Apples," EPA Guideline No. 171-4, Miles Report No. 103216, K. Vogeler, T. Clark and A. Brauner, 88 p.

42556109

- 9 "Investigation on the Metabolism of NTN 33893 After Application to Tomatoes," EPA Guideline No. 171-4, Miles Report No. 103212, G. Drager, A. Brauner and W. Bornatsch, 104 p.

42556110

- 10 "Metabolism of NTN 33893 in Eggplant by Planting Hole Application," EPA Guideline No. 171-4, Miles Report No. 103210, H. Yoshida, 102 p.

42556111

- 11 "Metabolism of NTN 33893 in Corn After Seed Dressing," EPA Guideline No. 171-4, Miles Report No. 103217, K. Vogeler, G. Drager and A. Brauner, 105 p.

42556112

- 12 "Comparative Metabolism of [pyridinyl]-¹⁴C NTN 33893 in Plant Cells Suspension Cultures," There is no EPA Guideline No. for this study, Miles Report No. 103213, J. Koester, 34 p.

42556113

- 13 "Rationale for the NTN 33898 Radiolabeling Position Used in Plant Metabolism Studies," EPA Guideline No. 171-4(a), Miles Report No. 103902, E.U. Kaussmann, K. Vogeler, and T. Clark, 13 p.

42556114

- 14 "[Pyridinyl-¹⁴C-methylene] Imidacloprid: Absorption, Distribution, Excretion, and Metabolism in a Lactating Goat," EPA Guideline No. 171-4(b), Miles Report No. 103819, W. Karl, O. Klein, and H. Weber, 244 p.

42556115

- 15 "[Methylene-¹⁴C] Imidacloprid: Absorption, Distribution, Excretion, and Metabolism in the Liver and Kidney of a Lactating Goat," EPA Guideline No. 171-4(b), Miles Report No. 103819-1, O. Klein, 147 p.

42556116

- 16 "[Methylene-¹⁴C] Imidacloprid: Absorption, Distribution, Excretion, and Metabolism in Laying Hens," EPA Guideline No. 171-4, Miles Report No. 102607, O. Klein and A. Brauner, 136 p.

42556117

- 17 "[Methylene-¹⁴C] Imidacloprid: Absorption, Distribution, Excretion, and Metabolism in Laying Hens," EPA Guideline No. 171-4(b), Miles Report No. 102607-1, O. Klein and A. Brauner, 170 p.

42556118

- 18 "Method for the Determination of Total Residues of Imidacloprid in Plant Materials and Drinking Water (Bayer Method 00200 - Reformatted)," EPA Guideline No. 171-4(c), Miles Report No. 102624-R, E. Weber, 128 p.

42556119

- 19 "Method for the Determination of Total Residues of Imidacloprid in Animal Materials (Bayer Method 0091 MC01 - Reformatted)," EPA Guideline No. 171-4(d), Miles Report No. 103848R, E. Weber and U. Heukamp, 59 p.

42556120

- 20 "Interference Study of Imidacloprid Total Residue Method for Crops and Animals," EPA Guideline Nos. 171-4(c) and 171-4(d), Miles Report No. 103828, F.J. Placke, 265 p.

42556121

- 21 "NTN 33893 Multiresidue Method Testing," EPA Guideline No. 171-4, Miles Report No. 99632, M.E. Ver Hey, 112 p.

42556122

- 22 "NTN 33893 Metabolites - Multiresidue Method Testing," EPA Guideline No. 171-4(c), Miles Report No. 103840, W.F. McCullough and B.B. Williams, 702 p.

- 42556123 23 "Outside Laboratory Validation of the Analytical Residue Method No. 00200 for the Determination of the Total Residue from Imidacloprid in Plant Sample Materials and Drinking Water," EPA Guideline No. 171-4, Miles Report No. 103214, H. Allmendinger, 20 p.
- 42556124 24 "Outside Laboratory Validation of the Analytical Residue Method No. 00200 for the Determination of Total Residues of Imidacloprid in Plant Materials and Drinking Water," EPA Guideline No. 171-4, Miles Report No. 103214-1, R.R. Gronberg, 20 p.
- 42556125 25 "Validation of the Residue Analytical Method for the Total Residue of Imidacloprid in Plant Materials Based on Radioactive Aged Residues," EPA Guideline No. 171-4(c), Miles Report No. 103827, E. Weber, 48 p.
- 42556126 26 "Validation of the Residue Analytical Method for the Total Residue of Imidacloprid in Animal Tissues Based on Radioactive Aged Residues," EPA Guideline No. 171-4(d), Miles Report No. 103829, E. Weber, 30 p.
- 42556127 27 "Outside Laboratory Validation of the Analytical Residue Method No. 00191 for the Determination of the Total Residue from Imidacloprid in Materials of Animal Origin," EPA Guideline No. 171-4, Miles Report No. 103830, W. Blass, 19 p.
- 42556128 28 "Summary of Method Validation and Recovery Data for Imidacloprid and Metabolites in Crops," EPA Guideline No. 171-4, Miles Report No. 103244, R. N. Burger and C.A. Lenz, 17 p.
- 42556129 29 "Imidacloprid (2.5GR & 240FS) - Magnitude of the Residue on Cotton," EPA Guideline No. 171-4(k), Miles Report No. 103824, R.N. Burger and C.A. Lenz, 729 p.
- 42556130 30 "Imidacloprid (2.5GR & 240FS) Magnitude of the Residue on Processed Cotton Commodities," EPA Guideline No. 171-4(l), Miles Report No. 103246, R.N. Burger and C.A. Lenz, 236 p.
- 42556131 31 "Imidacloprid (2.5GR & 240FS) - Magnitude of the Residue on Potato," EPA Guideline No. 171-4(k), Miles Report No. 103235, R.N. Burger and C.A. Lenz, 916 p.

- 42556132 32 "Imidacloprid (240FS & 2.5GR) - Magnitude of the Residue on Processed Potato Commodities," EPA Guideline No. 171-4(l), Miles Report No. 103238, R.N. Burger and C.A. Lenz, 193 p.
- 42556133 33 "Imidacloprid (240FS) - Magnitude of the Residue on Apples," EPA Guideline No. 171-4(k), Miles Report No. 103234, R.N. Burger and C.A. Lenz, 485 p.
- 42556134 34 "Imidacloprid (240FS) - Magnitude of the Residue on Processed Apple Commodities," EPA Guideline No. 171-4(l), Miles Report No. 103236, R.N. Burger and C.A. Lenz, 237 p.
- 42556135 35 "Imidacloprid and Metabolites - Freezer Storage Stability Study in Crops," EPA Guideline No. 171-4(e), Miles Report No. 103237, P. Noland, 363 p.
- 42556136 36 "Storage Stability Study of NTN 33893 (Imidacloprid) and its Five Metabolites in Corn, Lemon and Lettuce," EPA Guideline No. 171-4(e), Miles Report No. 103820, N. Morishima, 55 p.
- 42556137 37 "Determination of Storage Stability of the 'Total Residue' of Imidacloprid and Major Metabolites in Fortified Samples During Frozen Storage," EPA Guideline No. 171-4(e), Miles Report No. 103831, Y. Ishii and F.J. Placke, 96 p.
- 42556138 38 "Review of the Storage Stability Data of NTN 33893 and Metabolites in Plant Matrices," EPA Guideline No. 171-4(e), Miles Report No. 103847, T. Clark, 26 p.
- 42556139 39 "NTN 33893 - Cattle Feeding Study," EPA Guideline No. 171-4(j), Miles Report No. 103833, U. Heukamp, 320 p.
- 42556140 40 "NTN 33893 - Poultry Feeding Study," EPA Guideline No. 171-4(j), Miles Report No. 103832, U. Heukamp, 411 p.
- 42556141 41 Data Bridging: Comparison of Sample Analyses from Imidacloprid Animal Feeding Studies," EPA Guideline No. 171-4(j), Miles Report No. 103834, U. Heukamp, 132 p.
- 42556142 42 "Summary of Residue Data on Crops Used for Animal Feeds - Potential for Secondary Residues in Animal Tissues and Products," EPA Guideline No. 171-4(j), Miles Report No. 103836, R.N. Burger, 16 p.

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